

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/050304

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B7/125 H05B33/08 H01S5/068

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B H05B H01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 339 579 B1 (HIDAKA IKUO ET AL) 15 January 2002 (2002-01-15) column 3 - column 8; figures 11,13	1-21
X	US 2002/131358 A1 (NAGARA TORU) 19 September 2002 (2002-09-19) paragraph '0025! - paragraph '0059!; figure 5	1-21
X	WO 02/41457 A (SONY CORP.; FUJIE KAZUHIKO (JP); TAKESHITA YASUYUKI (JP)) 23 May 2002 (2002-05-23) abstract; figure 5	1,2,7,8, 10,12, 13,18, 19,21
A	US 6 529 182 B1 (BURTON SCOTT RICHARD) 4 March 2003 (2003-03-04) the whole document	1-21



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *G* document member of the same patent family

Date of the actual completion of the international search

24 June 2004

Date of mailing of the international search report

02/07/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Damp, S

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/050304

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/012151 A1 (FENG KAI D) 31 January 2002 (2002-01-31) the whole document	1-21
A	US 4 504 776 A (HAVILLE GEORGE D) 12 March 1985 (1985-03-12) the whole document	1-21

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/050304

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6339579	B1	15-01-2002	JP	11354893 A	24-12-1999
US 2002131358	A1	19-09-2002	JP	2002260266 A	13-09-2002
WO 0241457	A	23-05-2002	JP	2002158395 A	31-05-2002
			CN	1406405 T	26-03-2003
			WO	0241457 A1	23-05-2002
US 6529182	B1	04-03-2003	GB	2355816 A	02-05-2001
			CA	2324423 A1	26-04-2001
US 2002012151	A1	31-01-2002	CA	2311435 A1	13-12-2001
US 4504776	A	12-03-1985	CA	1175885 A1	09-10-1984
			DE	3142034 A1	16-06-1982
			GB	2087604 A , B	26-05-1982
			JP	57111079 A	10-07-1982